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4, 7TH MAIN MALLESWARAM, BANGALORE -3

QC ABSTRACT

NAME OF WORK: Supply and errection of streat name boards in ward no 15 (Kuvempunagara).

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
3	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
4	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
5	RCC(M25)	Compressive Strength(7days and 28days)	1 set		2	2
6	Structural Steel MS Pipe	Diameter	One Test		1	1
		Outer Diameter	One Test		1	1
		Yeild Stress	One Test		1	1
		Tensile Strength	One Test		1	1
		Elongation Percentage	One Test		1	1
		Bend Test	One Test		1	1
7	Structural Steel (Angle- 40*40*5mm)	Weight/Meter	One Test		1	1
		Thickness	One Test		1	1
		Yeild Stress	One Test		1	1
		Tensile Strength	One Test		1	1
		Elongation Percentage	One Test		1	1
		Bend Test	One Test		1	1

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2023-09-20-02** **Date: 22-07-23**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Supply and errection of streat name boards in ward no 15 (Kuvempunagara).
Agency	:	M/S Devi Construction, Prop.Sri.Surya S, No:130,9th Main, Muneshwara L/o, Lakshmipura Vaderahalli Village, Vidyaranyapura, Bangalore-97
Customer's Reference	:	BBMP/EE/BTP/WO/135/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-07-23
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4 4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste. Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	20-07-23
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	Fineness by dry sieving (%)	2.15	–
2	Finess by Air permeablity method (m^2/kg,Min)	282.2	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	185 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Agency/Representative

Any correction in the report will make this report invalid

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Samples will be disposed after 30 days from the date of issue of test certificate

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2023-09-20-02** **Date: 17-08-23**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Supply and errection of streat name boards in ward no 15 (Kuvempunagara).
Agency	:	M/S Devi Construction, Prop.Sri.Surya S, No:130,9th Main, Muneshwara L/o, Lakshmipura Vaderahalli Village, Vidyaranyapura, Bangalore-97
Customer's Reference	:	BBMP/EE/BTP/WO/135/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-07-23
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	20-07-23
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2023-09-20-02** **Date: 21-07-23**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Supply and errection of streat name boards in ward no 15 (Kuvempunagara).
Agency	:	M/S Devi Construction, Prop.Sri.Surya S, No:130,9th Main, Muneshwara L/o, Lakshmipura Vaderahalli Village, Vidyaranyapura, Bangalore-97
Customer Reference	:	BBMP/EE/BTP/WO/135/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-07-23
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	19-07-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	159	159	3.2	96.8	90-100
3	10 mm	2541	2700	54.0	46.0	25-55
4	4.75 mm	2117	4817	96.3	3.7	0-10
5	Pan	183	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2023-09-20-02** **Date: 21-07-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	14.8	
3	Specific Gravity	2.62	_
4	Bulk Density(Loose) (Kg/l)	1.50	_
5	Bulk Density(Compacted) (Kg/l)	1.55	_
6	Water Absorption(%)	0.28	_
7	Aggregate crushing Value(%)	26.6	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	24.3	30% for Aggregates to be used in concrete for wearing Surface. 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2023-09-20-02** **Date: 21-07-23**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Supply and errection of streat name boards in ward no 15 (Kuvempunagara).

Agency : M/S Devi Construction, Prop.Sri.Surya S, No:130,9th Main, Muneshwara L/o, Lakshmipura Vaderahalli Village, Vidyaranyapura, Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/135/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-07-23

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 19-07-23

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	35	35	3.5	96.5	90-100	90-100	90-100	95-100
3	2.36 mm	172	207	20.7	79.3	60-95	75-100	85-100	95-100
4	1.18 mm	116	323	32.3	67.7	30-70	55-90	75-100	90-100
5	600 micron	201	524	52.4	47.6	15-34	35-59	60-79	80-100
6	300 micron	217	741	74.1	25.9	5-20	8-30	12-40	15-50
7	150 micron	183	924	92.4	7.6	0-10	0-10	0-10	0-15
8	Pan	76	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2023-09-20-02** **Date: 21-07-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	7.6	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID : **CP-2023-09-20-02** **Date: 20-07-23**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Supply and errection of streat name boards in ward no 15 (Kuvempunagara).

Agency : M/S Devi Construction, Prop.Sri.Surya S, No:130,9th Main, Muneshwara L/o, Lakshmipura Vaderahalli Village, Vidyaranyapura, Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/135/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-07-23

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.

Date of test : 19-07-23

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-09-20-02** **Date: 02/08/2023**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Supply and erection of streat name boards in ward no 15 (Kuvempunagara).

Agency : M/S Devi Construction, Prop.Sri.Surya S, No:130,9th Main, Muneshwara L/o, Lakshmipura Vaderahalli Village, Vidyaranyapura, Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/135/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-07-23

Customer ID : Cement Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/08/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete	M25	26/07/2023	02/08/2023	150.72 X 150.89 X 150.05	22742	8.401	412.9	18.2	17.9
2	Cement Concrete	M25	26/07/2023	02/08/2023	150.64 X 150.63 X 150.15	22690	8.636	400.4	17.6	
3	Cement Concrete	M25	26/07/2023	02/08/2023	150.42 X 150.04 X 150.25	22568	8.827	401.1	17.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-09-20-02** **Date: 23/08/2023**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Supply and errection of streat name boards in ward no 15 (Kuvempunagara).

Agency : M/S Devi Construction, Prop.Sri.Surya S, No:130,9th Main, Muneshwara L/o, Lakshmipura Vaderahalli Village, Vidyaranyapura, Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/135/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-07-23

Customer ID : Cement Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/08/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete	M25	26/07/2023	23/08/2023	150.58 X 150.62 X 150.48	22680	8.915	639.5	28.2	28.2
2	Cement Concrete	M25	26/07/2023	23/08/2023	150.42 X 150.10 X 150.88	22578	8.901	642.5	28.5	
3	Cement Concrete	M25	26/07/2023	23/08/2023	150.11 X 150.44 X 150.30	22582	8.577	632.5	28.0	

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TEST RESULTES ON STRUCTURAL STEEL

Lab ID	:	**CP-2023-09-20-02** **Date: 19-07-23**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Supply and errection of streat name boards in ward no 15 (Kuvempunagara).
Agency	:	M/S Devi Construction, Prop.Sri.Surya S, No:130,9th Main, Muneshwara L/o, Lakshmipura Vaderahalli Village, Vidyaranyapura, Bangalore-97
Customer's Reference	:	BBMP/EE/BTP/WO/135/2022-23
Sourse of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-07-23
Type/ Description of Sample*	:	Angle 40*40*5mm
Reference to BIS codes	:	IS 2062: 2011 (RA 2021), IS:1608-2005(RA 2017), IS 1599-2019.
Date of testing	:	18-07-23

SL.NO	Description	Result	Required as per as IS Code 2062: 2011	Remarks
1	Weight/Meter	3 Kg /m	–	
2	Thickness	5 mm	–	
3	Yeild Stress	285 N/mm^2	240 N/mm^2	
4	Tensile Strength	450 N/mm^2	410 N/mm^2	
5	Elongation Percentage	18%	Min 15%	
6	Bend Test	Satisfactory	–	

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTES ON STRUCTURAL STEEL

Lab ID : **CP-2023-09-20-02** **Date: 19-07-23**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Supply and errection of streat name boards in ward no 15 (Kuvempunagara).

Agency : M/S Devi Construction, Prop.Sri.Surya S, No:130,9th Main, Muneshwara L/o, Lakshmipura Vaderahalli Village, Vidyaranyapura, Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/135/2022-23

Sourse of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-07-23

Type/ Description of Sample* : MS Pipe 65mm dia

Reference to BIS codes : IS 2062: 2011 (RA 2021), IS:1608-2005(RA 2017), IS 1599-2019.

Date of testing : 18-07-23

SL.NO	Description	Result	Required as per as IS Code 2062: 2011	Remarks
1	Diameter	65 mm	–	
2	Outer Diameter	76.1 mm	–	
3	Yeild Stress	280 N/mm^2	240 N/mm^2	
4	Tensile Strength	459 N/mm^2	410 N/mm^2	
5	Elongation Percentage	18%	Min 15%	
6	Bend Test	Satisfactory	–	

* The results obtained are satisfactory as per standard requirements.

Note:
The results pertain to the samples received and tested.
All information furnished by Agency/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

FOR CIVIL Pro
R RUDRAPRASAD
Authorized Signatory
Technical Manager

CIVIL Pro Sig..... Date..... BANGALORE

****End of Report****

Assistant Executive Engineer
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